

Birmingham Highways Maintenance & Management (BHMM) PFI Developers Guidance Note (DG01) - Version 1

Strategic Route and Main Distributor Network and Secondary Distributor Network

This guidance note shall be read in conjunction with the Birmingham City Council Development Standard Specification for Street Lighting Works latest revision and any specific brief provided by the Authority or Service Provider through the initial consultation period for the scheme. It shall not be taken as a comprehensive specification and it remains the responsibility of the developer to ensure compliance with the full specification.

Following the initial consultation regarding street lighting you should now have the following information or documentation as a minimum and as necessary:

- BCC Development Standard Specification for Street Lighting Works
- Carriageway hierarchy or road maintenance category
- Extent of public highway
- Any special considerations such as (but not limited to): -
 - Conservation area
 - Known engineering difficulties
 - CCTV requirements
 - Required attachments to columns
- As installed information (where possible)
- Colour of paint finish to be applied

Table 1 – Performance Requirements

Category	Type of Project Road	Lighting Class	Associated conflict area	Max column mounting height (m)	Recommended lamp wattage
2	Strategic Route	ME2	CE2	12	250W
3a	Main Distributor Route	ME3a	CE2	12	150W
3b	Secondary Distributor Route	ME3c	CE2	10	

Note: Lighting class as per BS EN 13201.2:2003, conflict area to be applied as detailed in BS5489.1:2003

All designs shall be undertaken in accordance with Appendix 13/70 -13/72 inclusive where applicable

Where the development affects no more than 5 road lighting units the developer may request from the Authority that similar equipment to the existing be installed provided that either:

1. The area can be lit in accordance with the performance requirements for the category of road
2. The existing lighting levels can be maintained without detriment. This shall be proven by way of calculation for the current situation and the proposed in order to compare the two
3. The road does not fall within the Core Investment Period (CIP) of the PFI contract.

If the development affects more than 5 units or BHMM PFI equipment has been requested in the initial consultation stage then the following unit attributes shall apply:

Attribute	Type	Appendix to be referenced
Column	Valmont Stepped Tubular Steel	Appendix 13
Numbering	TBC	Appendix 13
Bracket	If required $\leq 1.5\text{m}$ to suit column including 5° tilt	Appendix 13
Lantern	WRTL Airtrace2 with flat glass incorporating dimmable ballast	Appendix 13
Lamp	Philips or GE SON-T Plus	Appendix 14
Control unit	Telensa Node (70/35 lux)	Appendix 13
Isolator	Lucy or CEL cut out to suit	Appendix 14
Internal wiring	2.5mm ² PVC non armoured	Appendix 14
Protective system	Ameron full psx inc., GF root int & Ext	Appendix 19

All lighting units are required to incorporate fully dimmable equipment which is compatible with the proposed Telensa System.

All road lighting units affected by the proposed works shall typically be supplied with a Distribution Network Operator (DNO) TN-C-S type service, unless the existing system forms part of a private electrical network, which all amendments/additions shall be undertaken in accordance with BS 7671. The ordering, programming and payment for any involvement from the relevant statutory undertaker shall also form part of the Developers scope.

Where ducting and associated chambers are required as part of the works, these shall be in accordance with Appendix 5/2

All lamps shall be marked with the date of installation and all outgoing supplies shall be suitably identified with the destination

Where a zebra crossing falls within the scheme extents, unless it forms part of a conflict area calculation area, the crossing shall be designed in accordance with the Institution of Lighting Professionals (ILP formerly ILE) Technical Report 12 – Lighting of Pedestrian Crossings and also Appendix 13/72, the equipment shall be as detailed in DG04

All new equipment shall be electrically tested in accordance with Appendix 14/71

Section A & B of the Birmingham City Council Development Standard Specification for Street Lighting Works details the stages of the process and information that shall be supplied as a minimum. A Health & Safety File shall be compiled and handed over post construction which the contents shall be as detailed in Appendix 14/1.

Where applicable this guidance shall be read in conjunction with other guidance notes for the following aspects:

Doc Ref	Document Title
DG02	Link Roads and Local Access Roads including Footpaths and Cycle Tracks
DG03	City & District Centres
DG04	Illuminated Traffic signs including sign bollards and beacon poles

Note: The Developer may propose alternative equipment but this will be deemed as 'non standard' which the cost of maintaining for the life of the PFI (25 years) shall be borne by the Developer.